

PROBLEM SUMMARY

Sample Rating Trend

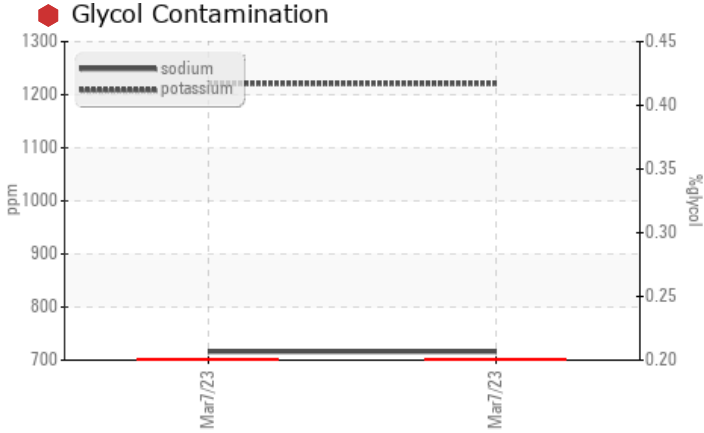
GLYCOL



Area
(305647) Walgreens - Tractor
 Machine Id
[Walgreens] 136A62580
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Sodium	ppm	ASTM D5185m		▲ 716	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 1221	---	---
Glycol	%	*ASTM D2982		● 0.20	---	---

Customer Id: TSV1364
 Sample No.: PCA0089780
 Lab Number: 05790790
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	MISSED	Jun 14 2023	?	We recommend an early resample to monitor this condition.
Check Glycol Access	MISSED	Jun 14 2023	?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

Area
(305647) Walgreens - Tractor
Machine Id
[Walgreens] 136A62580
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0089780	---	---
Sample Date	Client Info		07 Mar 2023	---	---
Machine Age	mls Client Info		209124	---	---
Oil Age	mls Client Info		41428	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>80	43	---	---
Chromium	ppm ASTM D5185m	>5	6	---	---
Nickel	ppm ASTM D5185m	>2	<1	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>3	<1	---	---
Aluminum	ppm ASTM D5185m	>30	19	---	---
Lead	ppm ASTM D5185m	>30	0	---	---
Copper	ppm ASTM D5185m	>150	16	---	---
Tin	ppm ASTM D5185m	>5	0	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	0	---	---
Barium	ppm ASTM D5185m	0	<1	---	---
Molybdenum	ppm ASTM D5185m	50	81	---	---
Manganese	ppm ASTM D5185m	0	1	---	---
Magnesium	ppm ASTM D5185m	950	885	---	---
Calcium	ppm ASTM D5185m	1050	1018	---	---
Phosphorus	ppm ASTM D5185m	995	769	---	---
Zinc	ppm ASTM D5185m	1180	1243	---	---
Sulfur	ppm ASTM D5185m	2600	3290	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>20	6	---	---
Sodium	ppm ASTM D5185m		716	---	---
Potassium	ppm ASTM D5185m	>20	1221	---	---
Glycol	% *ASTM D2982		0.20	---	---

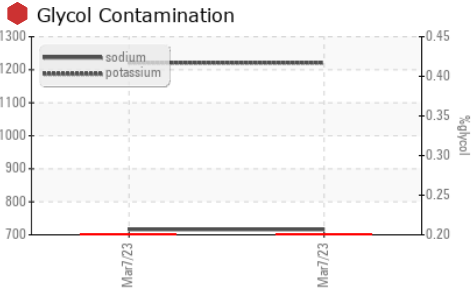
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.6	---	---
Nitration	Abs/cm *ASTM D7624	>20	12.3	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	22.5	---	---

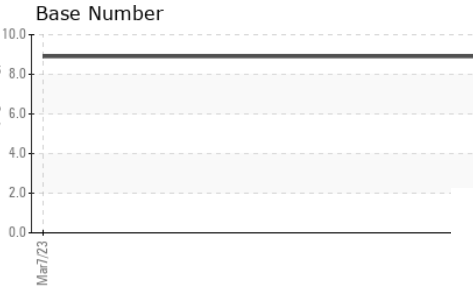
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	17.2	---	---
Base Number (BN)	mg KOH/g ASTM D2896		8.9	---	---

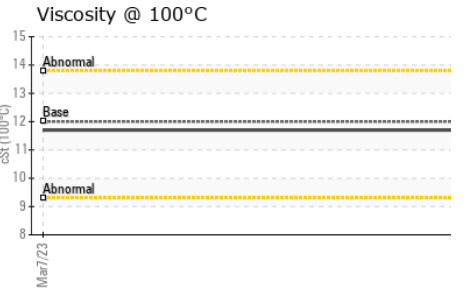
OIL ANALYSIS REPORT



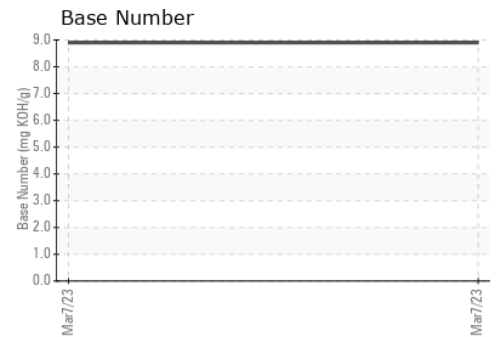
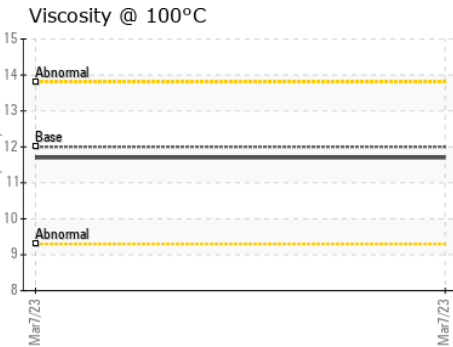
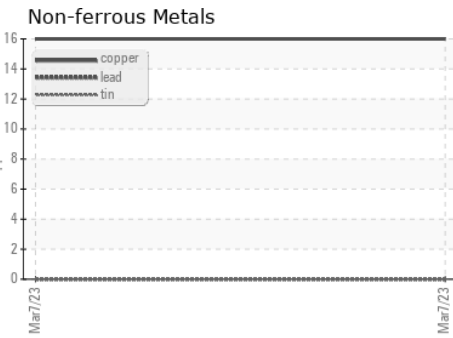
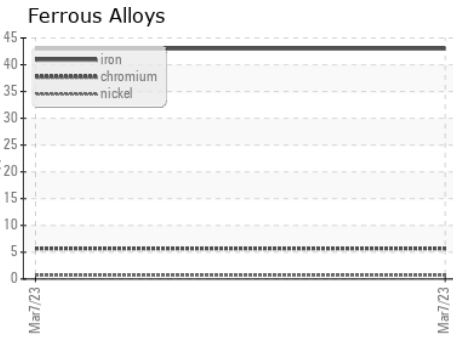
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	---	---



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0089780 **Received** : 14 Mar 2023
Lab Number : **05790790** **Diagnosed** : 17 Mar 2023
Unique Number : 10375461 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

Transervice - Shop 1364 - Berkeley-Mt. Vernon
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 US 62864
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)